

Mineral Industry Surveys

For information, contact:

Patricia A. Plunkert, Aluminum Commodity Specialist
U.S. Geological Survey
989 National Center
Reston, VA 20192
Telephone: (703) 648-4979, Fax: (703) 648-7757
E-mail: pplunker@usgs.gov

Sirirat Harris (Data)
Telephone: (703) 648-7972
Fax: (703) 648-7975
E-mail: syharris@usgs.gov

Internet: <http://minerals.usgs.gov/minerals>

ALUMINUM IN JULY 2003

The reported domestic primary aluminum production in July was 226,047 metric tons (t). The average daily production rate was 7,292 t, 1% lower than that of the previous month and 5% below the rate for July 2002.

The monthly average U.S. market price of primary aluminum ingot increased from 66.3 cents per pound in June to 67.2 cents per pound in July, according to Platts Metals Week. The American Metal Market buying price range for aluminum used beverage cans (UBCs) increased several times during July. The price range began the month at 47.5–49 cents per pound. On July 15, the price range increased to 49–50 cents per pound; on July 28, 50–51 cents per pound; and on July 30, 50.5–51.5 cents per pound. According to Resource Recycling's Container Recycling Report, the average monthly transaction price for aluminum UBCs decreased from 51 cents per pound in June to 50 cents per pound in July.

U.S. Trade Through June

Total U.S. imports for consumption of aluminum for the first half of 2003 increased 7% compared with the revised total for

the first half of 2002. Continuing the pattern of the first quarter 2003, increases in imports of crude metal and alloys (10%) and mill products (6%) were partially offset by a decrease (11%) in imports of aluminum scrap.

Total U.S. exports of aluminum for the first half of 2003, however, decreased 5% compared with those for the same period in 2002.

Update

The monthly average U.S. market price of primary aluminum ingot increased slightly from 67.2 cents per pound in July to 67.25 cents per pound in August. The American Metal Market buying price range for aluminum UBCs trended downward during the month of August. On August 5, the price range widened to 50.5–52 cents per pound. On August 12, the price range decreased to 48.5–50 cents per pound, and on August 29, it decreased again to 47–49 cents per pound.

TABLE 1
COMPONENTS OF ALUMINUM SUPPLY¹

(Thousand metric tons)

Period	Primary production	Secondary recovery ²			Imports for consumption			Total new supply ³	Total stocks, end of period ⁴
		New	Old	Total	Metals and alloys, crude	Plates, sheets, bars, etc.	Total		
2002 ^p	2,707	1,810	1,210	3,020	2,790	798	3,590	9,320	1,320
2002:									
July	238	143	101	244	228	74	302	784	1,310
August	237	155	105	260	279	77	356	853	1,350
September	227	157	102	260	235	70	305	792	1,370
October	235	164	111	276	196	67	263	774	1,360
November	232	148	100	248	264	64	328	808	1,370
December	241	140	91	231	186	61	247	719	1,320
January-July	1,535	1,050	702	1,750	1,630	458	2,090	5,370	1,310
2003:									
January	242	152	96	248	215	69	284	774	1,350
February	220	153	88	241	246	64	310	771	1,390
March	238	143	89	232	350	71	421	891	1,400
April	225	143	99	242	202	69	272	739	1,340
May	228 ^r	150	106	256 ^r	265	69	335	819 ^r	1,390
June	221 ^r	139	102 ^r	240 ^r	261	66	327	789	1,350
July	226	140	97	236	NA	NA	NA	NA	NA
January-July	1,600	1,020	677	1,700	NA	NA	NA	NA	NA

^pPreliminary. ^rRevised. NA Not available.

¹Data are rounded to no more than three significant digits, except "Primary production"; may not add to totals shown.

²Metallic recovery from purchased, tolled, or imported scrap, expanded for full coverage of industry.

³Primary production, secondary recovery, and imports for consumption.

⁴Includes scrap; data from the Aluminum Association Inc.

TABLE 2
ESTIMATED FULL COVERAGE CONSUMPTION OF AND METALLIC RECOVERY FROM
PURCHASED NEW AND OLD ALUMINUM SCRAP¹

(Thousand metric tons)

Period	Secondary smelters		Integrated aluminum companies		Independent mill fabricators		Foundries		Other consumers		Total	
	Con- sump- tion	Metal recovery	Con- sump- tion	Metal recovery	Con- sump- tion	Metal recovery	Con- sump- tion	Metal recovery	Con- sump- tion	Metal recovery	Con- sump- tion	Metal recovery
2002 ^p	1,840	1,380	871	754	823	764	134	122	6	6	3,680	3,020
2002:												
July	148	110	66	56	75	69	9	8	(2)	(2)	298	244
August	155	115	76	66	75	69	11	10	1	1	317	260
September	153	114	78	68	72	67	11	10	(2)	(2)	315	260
October	167	126	79	68	77	71	11	10	(2)	(2)	334	276
November	149	111	71	61	71	66	11	10	(2)	(2)	302	248
December	146	107	64	55	63	59	10	9	(2)	(2)	284	231
January-July	1,070	804	503	435	465	431	80	73	4	4	2,130	1,750
2003:												
January	147	109	70	60	72	67	12	11	1	1	301	248
February	147	109	66	57	68	64	11	10	(2)	(2)	293	241
March	140	103	59	50	73	69	10	9	1 ^r	1 ^r	282	232 ^r
April	137	102	75	65	71	66	10	9	1 ^r	1 ^r	294	242
May	143	106	82	71	74	68	11	10	1 ^r	1 ^r	311 ^r	256 ^r
June	143 ^r	106 ^r	74 ^r	64 ^r	65	60	11	10	1 ^r	1 ^r	293 ^r	240 ^r
July	122	89	75	64	78	73	11	10	1	1	286	236
January-July	979	724	501	431	501	467	76	69	4	4	2,060	1,700

^pPreliminary. ^rRevised.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Less than 1/2 unit.

TABLE 3
CONSUMPTION OF AND RECOVERY FROM PURCHASED
NEW AND OLD ALUMINUM SCRAP IN JULY 2003¹

(Metric tons)

	Consumption		Calculated metallic recovery	
	Tabulated reports	Estimated full coverage	Tabulated reports	Estimated full coverage
Secondary smelters	102,000	122,000	74,500	89,400
Integrated aluminum companies	74,700	74,700	64,300	64,300
Independent mill fabricators	64,900	77,900	60,400	72,500
Foundries	8,850	10,600	7,950	9,540
Other consumers	418	502	418	502
Total	251,000	286,000	208,000	236,000

¹Data are rounded to no more than three significant digits; may not add to totals shown.

TABLE 4
PURCHASED AND TOLL-TREATED ALUMINUM-BASE SCRAP AND SWEATED PIG IN 2003¹

(Metric tons)

	July			January-July ²		
	Stocks, opening	Net receipts ³	Melted or consumed	Stocks, closing	Net receipts ³	Melted or consumed
New scrap:						
Solids	21,900 ^r	80,000	77,000	24,900	541,000	545,000
Can stock clippings	3,720	18,200	18,300	3,600	131,000	129,000
Other clippings	4,810 ^r	7,820	7,760	4,880	63,700	64,700
Borings and turnings	4,710 ^r	15,400	14,900	5,240	120,000	120,000
Dross and skimmings	2,730	29,700	29,800	2,640	226,000	226,000
Total new scrap	37,800 ^r	151,000	148,000	41,300	1,080,000	1,090,000
Old scrap:						
Used casting, sheet, clippings	12,500 ^r	30,700	28,800	14,300	226,000	225,000
Aluminum-copper radiators	1,230 ^r	1,800	1,500	1,530	11,500	11,800
Used cans (shredded, loose, baled)	32,300 ^r	60,900	61,300	31,800	399,000	394,000
Fragmentized shredder (auto shredder)	4,360 ^r	12,500	10,600	6,240	83,400	78,300
Total old scrap	50,300 ^r	106,000	102,000	53,900	720,000	709,000
Sweated pig	172 ^r	878	880	170	6,320	6,310
Total all classes	88,300 ^r	258,000	251,000	95,400	1,810,000	1,800,000

^rRevised.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes revised data from previous month(s).

³Includes data on imported aluminum-base scrap.

TABLE 5
ALUMINUM ALLOYS PRODUCED AT SECONDARY SMELTERS IN THE UNITED STATES FOR 2003^{1,2}

(Metric tons)

	July				January-July ³	
	Stocks, opening	Production	Net shipments	Stocks, closing	Production	Net shipments
Die-cast alloys:						
13% Si, 360, etc. (0.6% Cu, max.)	2,920 [†]	2,450	1,600	3,770	12,000	11,600
380 and variations	6,760 [†]	23,600	24,000	6,300	200,000	202,000
Sand and permanent mold:						
95/5 Al-Si, 356, etc. (0.6% Cu, max.)	2,260	4,000	3,990	2,260	28,300	28,100
No. 319 and variations	3,670 [†]	7,990	8,240	3,420	70,100	71,800
F-132 alloy and variations	1,460 [†]	1,710	1,950	1,220	13,500	14,200
Al-Zn alloys	37	74	67	43	538	529
Al-Si alloys (0.6% to 2.0% Cu)	91	168	168	91	1,180	1,180
Al-Cu alloys (1.5% Si, max.)	--	191	191	--	1,340	1,340
Other ⁴	10,100	5,190	7,320	8,010	50,000	47,500
Wrought alloys:						
Extrusion billets	10,100	17,300	17,300	10,100	122,000	123,000
Total all alloys	37,500 [†]	62,600	64,900	35,200	499,000	501,000
Less:						
Primary aluminum consumed	XX	7,010	XX	XX	45,800	XX
Primary silicon consumed	XX	2,570	XX	XX	22,200	XX
Other alloying ingredients consumed	XX	577	XX	XX	4,450	XX
Net metallic recovery from aluminum scrap and sweated pig consumed in production of secondary aluminum ingot ⁵	XX	52,400	XX	XX	427,000	XX

[†]Revised. XX Not applicable. -- Zero.

¹Excludes integrated aluminum companies.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³Includes revised data from previous month(s).

⁴Includes alloys No. 12, Al-Mg, Al-Si-Cu-Ni, aluminum-base hardeners, variations of these alloys, plus other aluminum alloys.

⁵No allowance made for melt-loss of primary aluminum and alloying ingredients.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF ALUMINUM IN JUNE 2003¹

(Metric tons)

Country	Metals and alloys, crude		Plates, sheets, bars, etc.		Scrap		Total	
	June	January- June	June	January- June	June	January- June	June	January- June
Argentina	4,410	34,200	42	566	--	493	4,450	35,300
Australia	3,970	61,000	22	104	--	9	3,990	61,100
Bahrain	--	2,930	942	8,040	--	--	942	11,000
Belgium	2	7	412	4,750	--	--	414	4,750
Brazil	7,360	38,300	1,810	11,400	122	821	9,300	50,500
Canada	142,000	870,000	35,800	221,000	24,700	136,000	202,000	1,230,000
France	30	494	509	2,970	60	389	599	3,850
Germany	2,310	3,140	5,690	34,100	28	547	8,040	37,800
Ghana	--	--	--	--	--	592	--	592
Hungary	--	--	53	907	--	--	53	907
Italy	--	--	175	991	--	--	175	991
Japan	17	129	602	4,150	31	261	650	4,540
Korea, Republic of	--	6	523	3,060	--	--	523	3,070
Mexico	273	2,770	1,210	7,410	5,950	35,900	7,430	46,000
Netherlands	46	209	130	1,520	16	219	192	1,950
Norway	89	232	17	61	--	--	107	293
Russia	68,300	387,000	4,100	23,700	198	4,380	72,600	415,000
South Africa	--	4,060	2,960	16,500	--	--	2,960	20,500
Spain	15	71	15	145	--	21	30	237
Sweden	--	(2)	161	1,590	71	276	232	1,870
Switzerland	--	2,090	329	2,630	--	--	329	4,720
United Arab Emirates	4,680	24,200	--	2	18	719	4,700	24,900
United Kingdom	73	1,770	208	801	119	1,330	400	3,900
Venezuela	25,200	96,000	1,120	10,900	591	2,970	26,900	110,000
Other	2,520	11,600	8,890	51,400	2,770	19,300	14,200	82,300
Total	261,000	1,540,000	65,700	409,000	34,700	204,000	362,000	2,150,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Less than 1/2 unit.

Source: U.S. Census Bureau.

TABLE 7
U.S. EXPORTS OF ALUMINUM IN JUNE 2003¹

(Metric tons)

Country or territory	Metals and alloys, crude		Plates, sheets, bars, etc.		Scrap		Total	
	June	January- June	June	January- June	June	January- June	June	January- June
Australia	3	63	217	855	--	126	221	1,040
Belgium	--	258	320	1,910	--	40	320	2,210
Brazil	1	42	1,550	8,810	--	--	1,550	8,850
Canada	9,870	58,600	39,000	252,000	12,700	79,900	61,500	391,000
China	19	98	1,700	13,300	20,700	107,000	22,400	121,000
Czech Republic	--	--	14	173	--	--	14	173
Dominican Republic	--	40	79	603	--	--	79	643
France	(2)	22	385	2,330	--	3	385	2,350
Germany	77	382	424	2,520	21	86	521	2,990
Hong Kong	2	73	920	2,270	1,690	8,250	2,610	10,600
India	--	2	28	186	386	1,930	415	2,120
Israel	2	3	208	1,220	--	3	209	1,230
Italy	2	7	267	1,130	--	3	268	1,140
Japan	261	1,730	450	3,170	1,220	13,100	1,930	18,000
Korea, Republic of	10	165	1,270	7,550	3,350	21,400	4,630	29,100
Malaysia	3	78	131	446	709	1,010	844	1,530
Mexico	7,370	32,800	9,480	51,500	3,690	24,800	20,500	109,000
Netherlands	92	227	60	348	9	55	161	631
Russia	--	5	(2)	18	--	--	(2)	23
Saudi Arabia	--	--	995	7,720	--	--	995	7,720
Singapore	3	62	51	527	--	55	54	645
Spain	9	61	325	1,080	--	71	334	1,210
Sweden	3	3	29	201	--	--	32	204
Taiwan	--	69	1,180	4,360	2,200	13,900	3,380	18,300
Thailand	--	13	305	4,100	119	1,220	424	5,330
United Kingdom	52	204	865	5,520	17	349	934	6,070
Venezuela	--	--	324	986	--	16	324	1,000
Ukraine	--	--	--	1	--	--	--	1
Other	21	163	1,230	8,900	316	2,370	1,570	11,400
Total	17,800	95,200	61,800	384,000	47,100	276,000	127,000	755,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Less than 1/2 unit.

Source: U.S. Census Bureau.